



## **Advances in Composites Manufacturing and Process Design**

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# Advances in Composites Manufacturing and Process Design

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The manufacturing processes of composite materials are numerous and often complex. Continuous research into the subject area has made it hugely relevant with new advances enriching our understanding and helping us overcome design and manufacturing challenges. *Advances in Composites Manufacturing and Process Design* provides comprehensive coverage of all processing techniques in the field with a strong emphasis on recent advances, modeling and simulation of the design process.

Part One reviews the advances in composite manufacturing processes and includes detailed coverage of braiding, knitting, weaving, fibre placement, draping, machining and drilling, and 3D composite processes. There are also highly informative chapters on thermoplastic and ceramic composite manufacturing processes, and repairing composites. The mechanical behaviour of reinforcements and the numerical simulation of composite manufacturing processes are examined in Part Two. Chapters examine the properties and behaviour of textile reinforcements and resins. The final chapters of the book investigate finite element analysis of composite forming, numerical simulation of flow processes, pultrusion processes and modeling of chemical vapour infiltration processes.

- Outlines the advances in the different methods of composite manufacturing processes
- Provides extensive information on the thermo-mechanical behavior of reinforcements and composite preregs
- Reviews numerical simulations of forming and flow processes, as well as pultrusion processes and modeling chemical vapor infiltration

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